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MODEL 5086-003

1 - 150 MHz
250 WATTS

Solid State Broadband High Power RF Amplifier

The 5086-003 is a 250 Watt broadband amplifier that covers the 1 – 150 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR_{RF} amplifiers, the 5086-003 comes with an extended

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.0 – 150 MHz
2	Saturated Output Power	250 Watts typical
3	Power Output @ 1dB Comp.	180 Watts min
4	Small Signal Gain	+55 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	Gain Variation vs. Temp.	± 0.2 dB from 25° ± 5° C
7	IP ₃	+57 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-15 dBc typical @ 180 Watts
10	Spurious Signals	> -60 dBc typical @ 180 Watts
11	Input/Output Impedance	50 Ohms nominal
12	AC Input Power	1000 Watts max
13	AC Input	100 – 240 VAC, single phase
14	RF Input	0 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	AB
	Duty Cycle	10% max
Mechanical		
17	Dimensions	19" x 5.25" x 20"
18	Weight	40 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
Environmental		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

ORDERING MODELS

- ◇ RE - R model w/Control Option
- ◇ FE - F model w/Control Option
- ◇ RT - RE model w/Ethernet Interface
- ◇ FT - FE model w/Ethernet Interface



F Model Shown